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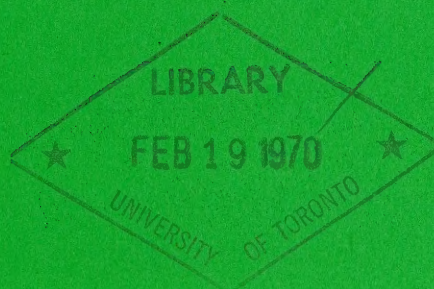


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# MANUFACTURERS OF CORRUGATED BOXES

## CENSUS OF MANUFACTURES 1967



ONTARIO STATISTICAL CENTRE  
ECONOMIC AND STATISTICAL SERVICES DIVISION  
DEPARTMENT OF TREASURY AND ECONOMICS

Hon. Charles S. MacNaughton,  
Treasurer of Ontario and Minister of Economics

H. Ian Macdonald,  
Deputy Minister





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**December  
1969**

**Catalogue  
No. 5-2732**

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## SYMBOLS

- \* Confidential
- S Suppressed to protect confidential items
- Nil or Zero
- Amount too small to be expressed
- .. Figures not available
- ... Figures not appropriate or not applicable
- ( ) Figures within brackets are negative

## NOTES

1. Figures may not add to the total because of rounding.
2. To ensure confidentiality, confidential items are either combined with other items or suppressed.
3. If an item is combined with other items, this is indicated by brackets or by footnotes.
4. Where a confidential item cannot be meaningfully combined with other items, the confidential item is suppressed by placing an asterisk instead of the actual figure, and the confidential item lumped with "All others".



## INTRODUCTION

This report is one of a series designed to provide information on industries and products covered in the 1966 and 1967 Census of Manufactures. The collection of manufacturing data by the Ontario Statistical Centre is carried out under a statistical arrangement negotiated with the Dominion Bureau of Statistics in accordance with the provisions of the Federal and Provincial Statistics Acts.

The use of the same questionnaire as the Dominion Bureau of Statistics provides for comparability of national and provincial manufacturing statistics. In a few cases, there may be slight variances between the statistics published by the Ontario Statistical Centre and the Dominion Bureau of Statistics. These are mainly due to different interpretations in editing and may also be the result of estimating outstanding questionnaires. As new information becomes available, the statistics may be revised.

The classification of establishments included in this report is based upon the definitions embodied in the Dominion Bureau of Statistics Standard Industrial Classification. "Concepts and Definitions" notes prepared by the Dominion Bureau of Statistics for the Census of Manufactures are included in this report.

All correspondence concerning this report should be directed to the Ontario Statistical Centre.

This industry includes establishments primarily engaged in manufacturing corrugated paper boxes and wrappers, corrugated double face sheets and single face rolls or sheets.

In 1967, the value of shipments of goods of own manufacture in Ontario was \$114 million, an increase of 8 per cent over 1966. Ontario's shipments represented 50 per cent of the total Canadian shipments. Average production employment in manufacturing operations showed a decrease of 2 per cent from 1966. Value added by manufacture amounted to \$42 million, an increase of 12 per cent from 1966. Value added for total activity also increased by 12 per cent.



TABLE 1

PRINCIPAL STATISTICS, ONTARIO AND CANADA, 1965 TO 1967

Year	Establishments	Manufacturing Activities						Total Activities					
		Production and related workers		Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value <sup>1</sup> added	Working owners and partners		Employees		Value added	
		Number	Man-hours paid					Wages	Number	With-drawals	Number		Salaries and wages
			'000			\$'000			\$'000			\$'000	
Ontario 1965	22	2,735	6,425	14,039	675	61,228	95,017	33,266	-	3,783	20,521	33,062	
1966	30	3,074	6,800	15,708	755	67,626	105,497	37,337	-	4,166	23,071	37,214	
1967	32	3,125	6,894	17,002	837	71,512	114,290	41,906	-	4,236	24,751	41,700	
Canada <sup>2</sup> 1965	49	5,581	12,371	26,530	1,521	122,754	193,053	69,098	*	7,769	39,975	68,802	
1966	58	5,929	12,994	29,449	1,638	134,682	211,493	75,509	-	8,180	44,330	75,706	
1967	60	6,148	13,310	32,362	1,805	143,791	229,438	83,886	-	8,469	48,393	83,571	
Ontario/Canada ratio (%) 1967	53	51	52	53	46	50	50	50	-	50	51	50	

<sup>1</sup> "Value Added by Manufacture" is computed from value of shipments plus the net change in inventories of finished goods and goods in process, less cost of materials, fuel and electricity.

<sup>2</sup> As published by DBS.

TABLE 2

FUEL AND ELECTRICITY USED IN MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
1. Large establishments reporting commodity detail:			\$'000		\$'000
Bituminous coal	Ton	-	-	-	-
(a) From Canadian mines	"	6,377	80	7,901	103
(b) Imported	"	-	-	-	-
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	-	-	-	-
Lignite coal	"	-	-	-	-
Coke	"	-	-	-	-
Gasoline	Imp. gal.	208,044	77	283,939	107
Fuel oil including kerosene or coal oil	"	2,285,808	199	2,566,573	228
Wood	Cord	-	-	-	-
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	99,653	25	103,179	26
(b) Other manufactured gas	M. Cu. ft.	-	-	-	-
(c) Natural gas	"	44,842	31	27,218	17
Other fuel		-	-	-	-
Electricity purchased	Kwh.	32,290,083	292	32,845,493	300
Steam purchased	Pound	45,295,000	36	45,208,000	39
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		...	16	...	18
3. All establishments:					
TOTAL FUEL AND ELECTRICITY USED		...	755	...	837



TABLE 3

MATERIALS AND SUPPLIES USED, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
A. MANUFACTURING ACTIVITY			\$'000		\$'000
1. Materials used:					
Corrugating paper (.009 straw, Kraft, etc.)	M. sq. ft.	8,940,834	17,492	10,204,521	20,585
Liner board (.016 or .025 test, .016 Kraft, etc.) for corrugated boxes and wrappers	"	12,024,619	39,194	12,020,680	39,557
Bogus chip board (.009) for corrugated boxes and wrappers	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Chip board for solid fibreboard boxes	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Double faced sheets	"	177,572	2,640	152,109	2,742
Glassine paper	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Greaseproof paper	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Synthetic resins, all types and forms	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Gummed tape, Kraft	lb.	858,569	359	820,420	322
Gummed tape, other paper	"	1,298,256	431	1,420,589	538
Cambic tape	"	...	142	...	* <sup>1</sup>
Silicate of soda	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Adhesives, all kinds	"	...	1,143	...	1,223
Paraffin and other wax	"	...	* <sup>1</sup>	...	* <sup>1</sup>
Die board	"	...	25	...	* <sup>1</sup>
Die rule	"	...	20	...	* <sup>1</sup>
Stitching wire	"	447,184	105	398,613	104
Printing plates	"	878,986	259	...	205
Ink	"	...	931	951,187	946
All other materials and components used	"	...	1,717	...	1,963

<sup>1</sup> Confidential, included in "All other materials used".

**Table 3** – Materials and Supplies Used, Ontario, 1966 and 1967 – continued

Description	Unit	1966		1967	
		Quantity	Cost \$'000	Quantity	Cost \$'000
Estimated cost for small establishments		...	903	...	916
2. Containers and other packaging materials and supplies used:					
Tags and labels		...	9	...	14
Other packaging materials		...	329	...	356
3. Operating, maintenance and repair supplies used		...	1,838	...	1,921
4. Amount paid out to others for work done on materials owned by establishments		...	87	...	120
TOTAL		...	<u>67,626</u>	...	<u>71,512</u>
B. NON-MANUFACTURING ACTIVITY					
1. Purchases of goods for resale in same condition as purchased		...	980	...	928
2. All other materials and supplies used		...	336	...	388
TOTAL		...	<u>1,315</u>	...	<u>1,316</u>
C. TOTAL INPUT OF MANUFACTURING AND NON-MANUFACTURING ACTIVITIES		...	<u>68,941</u>	...	<u>72,828</u>



TABLE 4

SHIPMENTS OF GOODS, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Value \$'000	Quantity	Value \$'000
A. MANUFACTURING ACTIVITY					
1. Products shipped:					
Corrugated boxes, including wrappers, etc.	M. sq. ft.	5,458,448	103,924	5,763,073	111,061
Corrugated sheets sold to sheet plants	" "	132,228	1,947	209,370	3,096
Corrugated single faced paper and wrappers, in rolls or sheets	" "	70,301 *	981 *	79,038 *	1,095 *
Solid fibreboard boxes	" "	1 *	1 *	1 *	1 *
Dividers for shipping cartons and egg case fillers	ton	42,214	1,595	38,464	1,203
Waste paper		...	113	...	167
All other products					
2. Amount received in payment for work done on materials and products owned by others		...	285	-	-
3. LESS adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		...	3,348	...	2,332
TOTAL ADJUSTED VALUE OF SHIPMENTS AND WORK DONE			<u>105,497</u>		<u>114,290</u>

<sup>1</sup> Confidential, included in "All other products shipped".

**Table 4** - Shipments of Goods, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Value \$'000	Quantity	Value \$'000
B. NON-MANUFACTURING ACTIVITY					
1. Shipments of goods purchased and sold in same condition as purchased		...	1,168	...	1,068
2. Other revenues		...	54	...	41
TOTAL		...	<u>1,222</u>	...	<u>1,108</u>
C. TOTAL OUTPUT OF MANUFACTURING AND NON-MANUFACTURING ACTIVITIES		...	<u>106,719</u>	...	<u>115,398</u>



**TABLE 5**

EMPLOYMENT AND PAYROLL, ONTARIO, 1966 AND 1967

Employees	1966				1967			
	Male	Female	Total	Salaries and wages	Male	Female	Total	Salaries and wages
	Number			\$'000	Number			\$'000
Production and related workers								
Manufacturing	2,609	465	3,074	15,708	2,660	465	3,125	17,002
Others	-	-	-	-	-	-	-	-
Administrative and office	457	183	640	4,116	530	198	728	4,589
Sales and distribution	379	73	452	3,247	334	49	383	3,160
TOTAL EMPLOYEES	3,445	721	4,166	23,071	3,524	712	4,236	24,751

**TABLE 6**

MONTHLY PRODUCTION EMPLOYEES IN MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Month	1966			1967		
	Male	Female	Total	Male	Female	Total
Establishments reporting monthly detail (large establishments only):	Number					
January	2,432	435	2,867	2,620	462	3,082
February	2,419	417	2,836	2,524	426	2,950
March	2,478	422	2,900	2,571	446	3,017
April	2,504	444	2,948	2,572	452	3,024
May	2,620	465	3,085	2,656	476	3,132
June	2,690	482	3,172	2,723	471	3,194
July	2,767	468	3,235	2,616	447	3,063
August	2,692	489	3,181	2,722	481	3,203
September	2,720	491	3,211	2,704	493	3,197
October	2,679	486	3,165	2,655	465	3,120
November	2,688	499	3,187	2,590	470	3,060
December	2,619	487	3,106	2,531	453	2,984
Averages	2,609	465	3,074	2,624	462	3,086
Small establishments reporting annual averages	--	--	--	36	3	39
AVERAGE FOR ALL ESTABLISHMENTS	2,609	465	3,074	2,660	465	3,125

TABLE 7

CALCULATION OF INPUT, OUTPUT AND VALUE ADDED, ONTARIO, 1966 AND 1967

Description	1966			1967		
	Manufacturing activity	Non manufacturing activity	Total	Manufacturing activity	Non manufacturing activity	Total
	\$ '000					
<b>OUTPUT</b>						
1 Shipments and other revenue	105,497	1,222	106,719	114,290	1,108	115,398
Inventories - Goods of own manufacture:						
Add closing	568	...	568	638	...	638
- Goods in process	944	...	944	839	...	839
- Finished goods	484	...	484	658	...	658
Deduct opening	807	...	807	854	...	854
- Goods in process						
- Finished goods						
2 Net inventory change	221	...	221	(35)	...	(35)
3 Gross output (1+2)	105,718	1,222	106,939	114,255	1,108	115,363
<b>INPUT</b>						
4 Purchases of goods not of own manufacture	...	980	980	...	928	928
Inventories - Goods not of own manufacture:						
Add opening	...	47	47	...	18	18
Deduct closing	...	18	18	...	21	21
5 Cost of goods sold (not of own manufacture)	...	1,009	1,009	...	925	925
6 Materials, supplies, etc.	67,626	336	67,961	71,512	388	71,901
7 Fuel and electricity	755	-	755	837	-	837
8 Gross input (5+6+7)	68,381	1,344	69,725	72,349	1,314	73,663
9 VALUE ADDED (3-8)	37,337	(123)	37,214	41,906	(206)	41,700



**TABLE 8**  
INVENTORIES, ONTARIO, 1966 AND 1967

Inventories	1966		1967	
	Opening	Closing	Opening	Closing
1 Manufacturing	book value \$'000			
Materials, supplies, etc.	3,935	4,631	4,633	6,180
Goods in process	484	568	658	638
Finished goods of own manufacture	807	944	854	839
TOTALS	5,227	6,143	6,145	7,657
2 Non-manufacturing				
Products or materials purchased for resale	47	18	18	21
Other non-manufacturing inventory	18	14	14	11
3 TOTAL INVENTORIES	5,292	6,175	6,178	7,689

NOTE: Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

**TABLE 9**  
MAN-HOURS, MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Man-Hours	1966	1967
	Number	
Total man-hours worked in all manufacturing operations	6,489,950	6,449,880
Total man-hours not worked, but nevertheless paid (e.g. paid vacation, sick leave, statutory holidays, etc)	413,556	443,726
TOTAL MAN-HOURS PAID	6,903,506	6,893,606

# LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
Abitibi Containers Ltd.	200 Brockport Rd., Rexdale
Abitibi Containers Ltd. (Pembroke Shook Mill)	330 Forced Rd., Pembroke
Acme Paper Products Co. Ltd.	388 Carlaw Ave., Toronto 8
Brock Containers (Ottawa) Ltd.	2780 Sheffield Rd., Ottawa
Brock Containers Ltd.	37 Iron St., Rexdale
Chadwick, M. & Sons Ltd.	30 Rolark Rd., Scarborough
C.I.P. Containers Ltd.	747 Appleby Line, Burlington
C.I.P. Containers Ltd.	575 Pall Mall St., London
C.I.P. Containers Ltd.	1170 Martin Grove Rd., Rexdale
Coleman Containers Ltd.	43 Torbarrie Rd., Downsview
Complete Packaging Ltd.	2481 Edna Rd., Windsor
Consolidated Bathurst Packaging Ltd.	Cavell Ave., Hamilton
Consolidated Bathurst Packaging Ltd. (Toronto Corrugated Box Plant)	1000 Gerrard St. E., Toronto
Consolidated Bathurst Packaging Ltd.	1155 Talbot St., St. Thomas
Consolidated Bathurst Packaging Ltd.	Water St., Whitby
Continental Can Co. of Canada Ltd. (Corrugated Box Div.)	475 Commissioners St., Toronto 8
Continental Can Co. of Canada Ltd. (Corrugated Box Div.)	745 York St., London
Coyle Corrugated Containers Ltd.	245 Midwest Rd., Scarborough
Domtar Packaging Ltd. (Corrugated Packaging Div.)	450 Evans Ave., Toronto
Domtar Packaging Ltd. (Corrugated Packaging Div.)	105 Park St., Peterborough



# LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
Domtar Packaging Ltd. (Corrugated Packaging Div.)	James St., St. Mary's
Domtar Packaging Ltd. (Corrugated Packaging Div.)	Wallaceburg
Guthrie Containers Co. Ltd.	17 Newbridge Rd., Toronto 18
Hughes Containers Ltd.	105 Bentworth Ave., Toronto
Kruger Pulp & Paper Ltd. (Packaging Division)	280 Belfield Road, Rexdale
Leaside Corrugated Containers Ltd.	450 Cumberland Ave., Hamilton
Planet Paper Box Ltd.	40 Milvan Dr., Weston
Quigley Containers Ltd.	354 King St. N., Waterloo
Quinn Containers Ltd.	3179 Mainway, Burlington
Select Carton Service Ltd.	134 Park Lawn Rd., Etobicoke
Shipmaster Containers Ltd.	57 Mack Ave., Scarborough
Superior Box Co. Ltd.	77 Wellington St. S., Kitchener





## CONCEPTS AND DEFINITIONS

### ESTABLISHMENT

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

### HEAD OFFICES AND AUXILIARY UNITS

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

## EMPLOYEES

### (a) Production and related workers - Manufacturing activities

In addition to those engaged in production and assembling activities, production and related workers in manufacturing activities include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last payperiod of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of the establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.) Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated. In reporting overtime hours, respondents are requested to report only hours actually at work.



(b) Production and related workers - Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

WORKING OWNERS OR PARTNERS

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

SALARIES AND WAGES

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness,

accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for overtime are included. Figures on salaries and wages refer to the calendar year.

## FUEL AND ELECTRICITY

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. Any fuel and electricity produced by establishments for internal consumption are not included in the total cost. Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

## MATERIALS AND SUPPLIES

### (a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items of physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

### (b) Non-manufacturing activities

#### 1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

#### 2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.



## SHIPMENTS

### (a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of net change in progress payments over the year.

### (b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

### (c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

#### (d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book of value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

### INVENTORIES

#### (a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payments accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

#### (b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for resale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

### VALUE ADDED

#### (a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

#### (b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for resale (adjusted for changes in the value of inventories of goods purchased for resale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.



(c) By total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production.



## PUBLICATIONS

This publication is prepared annually by the Ontario Statistical Centre of the Economic and Statistical Services Division, Department of Treasury and Economics. In addition to this report, annual statistics are published on other manufacturing industries. Publications listed below can be obtained from the Ontario Statistical Centre, Queen's Park, Toronto, Canada.

Catalogue Number	Industry Title
5-1430	Distilleries
5-1450	Breweries
5-1470	Wineries
5-1510	Leaf Tobacco Processors
5-1530	Tobacco Products Manufacturers
5-2480	Foundation Garment Industry
5-2580	Coffin and Casket Industry
5-2720	Asphalt Roofing Manufacturers
5-2910	Iron and Steel Mills
5-2920	Steel Pipe and Tube Mills
5-3230	Motor Vehicle Manufacturers
5-3260	Railroad Rolling Stock
5-3651	Petroleum Refining Industry
5-3652	Manufacturers of Lubricating Oils and Greases



